

Membership Application
PIKES PEAK RADIO AMATEUR ASSOCIATION

Name _____

Address _____

City _____ State _____ Zip _____

Call _____ License Class _____

Are You An ARRL Member? ☐ Yes ☐ No Telephone _____

Full Member \$12.00 ☐

Family Membership \$15.00 ☐

Additional Names _____ Calls _____

Associate Member \$8.00 ☐ (Outside Teller & El Paso Counties.)



Ø BEAT
JULY 1984

**COLORADO SPRINGS,
COLORADO**

Frank Drake KL7IPV
4964 Harvest Lane
Colorado Springs, CO 80917

FIRST CLASS MAIL

THE FOLLOWING ITEMS TAKEN FROM C Q MAGAZINE FOR JULY, 1984, "DATELINE, WASH., D.C. BY THEODORE J. COHEN, N4XX, AND CONTRIBUTED BY DON, WB0BSZ.

NAVAL OBSERVATORY PROVIDES TIME BY TELEPHONE

With the Bell System divestiture and the subsequent elimination of time services by some of the local Bell companies, the void has been filled by the Naval Observatory. by dialing 900-410-TIME, the military and scientific community as well as the general population can now obtain a voice announcement of the time based upon the Master Clock at the Observatory... the most accurate and reliable time standard in the world!

The new time service uses dedicated landlines. Thus, call placed over terrestrial lines will have delays usually no longer than 25 milliseconds, (satellite lines can have propagation delays of up to 240 milliseconds). Up to 8,000 simultaneous calls can be accommodated, with the callers able to stay on the line as long as desired. A constant ticking in the background allows scientific users to synchronize equipment.

Callers using the new service will be charged on a pay-as-you-call basis: \$0.50 for the first minute and \$0.35 for each additional minute.

DIALOGUE CONTINUES BETWEEN FCC AND AMATEURS ON NET OPERATIONS

As reported some months ago, Ray Kowalski, PRB, FCC, has called for amateurs to enter into a dialogue with him regarding net operations. His interest in nets stems largely from the rule abuses the Commission has observed (e.g., the use of phone patches to circumvent toll charges) as well as from the large number of co-channel interference complaints lodged with the Commission because nets tend to lay claim to the " net frequency. "

While it is unknown at this time whether the Commission will issue a notice of inquiry in the matter or simply issue a policy statement, Kowalski requests that amateurs consider the following questions and share their views with him:

1. Does net operation, in general, equate to " good amateur practice " ?
2. Are there special problems with large scale nets?
3. Would a time limit on net sessions be a solution?
4. Are FCC rules concerning net operations needed?
5. Should the FCC redefine or codify the rights of the first party on frequency?
6. Should there be assigned frequencies or subbands for nets?
7. Are abuses (e.g., phone patches) the real problem?
8. Is the problem even larger then envisioned (involving, for example, a general breakdown of the " Considerate operators agreements") or are net problems really no different then repeater problems or disregard of the 75 meter DX window, for instance?

Amateurs wishing to comment informally on the issue of net operations are encouraged to send their views to Mr. Ray Kowalski, Chief, Special Services Division, Private Radio Bureau, Federal Communications Commission, 1919 M St., NM, Washington, DC 20554

ASH FLASH FLASH FLASH FLASH FLASH FLASH FLASH FLASH

For those interested: I have just received a letter from Yellow Cab Company, dated June 27th, that was signed by the General Mgr, Alan Walker. Mr. Walker stated that the company has been phasing out the older MoCom 30 and Motral mobile radios crystallized up on 152.000 MHz. If anyone is interested in buying any of these radios, you may call Mr. Walker at 634-6601. Could be a deal!!

As I said last month, I would start a Computer Corner. All the programs that I list from my computer are for the Kaypro 4/84. To run on any other computer, you must modify them a little. If there are "PEEK" or "POKE" type statements, redo them for the format that your machine uses. The basic is from Microsoft Basic, ver.2.2. This month I am running a program that figures antenna length for you when you enter the frequency that you wish to use the antenna on. Look for the program on another page. If you have a favorite program that you think others might like, send it to me. I'll run it here and give you credit. It always helps to have your help.

GENERAL MEETING GENERAL MEETING GENERAL MEETING GENERAL MEETING

The next regularly scheduled meeting of the Pikes Peak Amateur Radio Assoc. will be held at Giuseppe's Depot at #10 S. Sierra St. at 7:30PM on July 11th. Unfortunately, Ye Olde Editor doesn't remember what the program is. Suffice to say it'll be good. Be there! (Imagine Mr. T saying that).

BOARD MEETING MINUTES BOARD MEETING MINUTES BOARD MEETING MINUTES

The board meeting of the Pikes Peak Radio Amateur Assoc. was called to order at 7:35PM, on June 18th, at Les's home. Present were Les, KCØNC; Al, NØCMW; Mike, KØTER; Jake, NØCYR; and Mark, NØEPF.

Al indicated the basic cost of trailer insurance would be \$15 the first year and \$10 there after. He did not have figures on property damage if the trailer should motivate itself unattached. Les moved, Mike seconded, that up to \$25 a year be allocated for insurance and that it include property damage ins. The motion passed unanimously.

After discussion of various Field day topics, Al moved, Mike seconded, to pay \$70 for delivery and set up of a Porta Potty at the F.D. site. The motion passed unanimously.

Mark moved, Les seconded, to spend up to \$200 for needed food for the F.D. supper and breakfast with remaining monies to return to the treasury. Motion passed unanimously.

A list of the equipment for sale will be printed in the Zero Beat with a space for writing in bids included. Bids will be mailed to the club P.O. box and will be subject to board approval.

It was suggested by Mike to use the special convention issue of the Zero Beat as a mailing for new licensees as they become known to us. A cover letter inviting them to visit our meeting would be included.

The club STILL needs a chairman to handle our publicity.

There being no further business before the board, the meeting adjourned at 1:40PM. The next meeting will be at Al's on July 16th.

Respectfully submitted,
Mark, NØEPF

GENERAL MEETING MINUTES GENERAL MEETING MINUTES GENERAL MEETING MINUTES

The regular meeting of the Pikes Peak radio Amateur Assoc. was called to order at 7:30PM, on June 13th. there were fifty seven (57) members and guests present.

After a brief discussion on the closing of the Kings Country Kitchen, it was decided to try All The King's Men as a Saturday breakfast location. The eatery is located on Union Blvd across from the East Jr. High School.

Field Day was organising fairly smoothly. It seems there were plenty of " Indians " but not too many wanting to be " Chiefs ".

A certificate of appreciation was received from the March of Dimes Walkathon complimenting the club for their public service help.

Les, KC0NC; reported income of \$77 and expenses of \$1026.77 which left a balance of \$2256.88 in the treasury.

Mark, N0EPF; was asked to announce there would be another weather spotter training session soon. Interested persons should tune in the ARES net on Wednesday evenings.

Mark also reported that the title for the trailer has been received. He also reported that the attendance for the past six months averaged 50 per meeting.

After the break, Greg, NB0U; gave an excellent presentation on VHF/UHF propagation. Thank you, Greg.

The next meeting will be July 11th at Giuseppe's.

Respectfully submitted,
Mark, N0EPF

WELCOME NEW MEMBERS

Bob Norris - N1CKE
7520 Liberty Bell Dr. C.S.
80918 Ph# 594-6084

Peter La Fosse - N0LA
5750 N. Meridian Rd. Peyton
80831 Ph# 495-4829

Allen Kuehn - KA0PJD
300 Pecos Dr. Security
80911 Ph# 392-1782

Carl Woodruff - K0WVB
2405 Paseo Rd. C.S.
80907 Ph# 694-8372



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TO SAY!**

Bob Haggart
(303) 392-9743

158 Widefield Blvd.
Colorado Springs, CO 80911
(Widefield)

```

10 REM ANTENNA COMP.
20 PRINT CHR$(26)
30 PRINT
40 PRINT"*****"
50 PRINT"*** ANTENNA DIMENSION PROGRAM ***"
60 PRINT"*****"
70 PRINT
80 PRINT
90 PRINT
100 PRINT"TO DETERMINE THE SIZE OF A DIPOLE AND VERTICAL ANTENNA FOR ANY BAND"
110 PRINT"ENTER THE CENTER FREQUENCY IN MEGAHERTZ."
120 INPUT F
130 PRINT
140 PRINT" ";F;"mHz"
150 LET L1=(INT(42900/F))/100
160 LET L2=(INT(15000/F))/100
170 LET L3=(INT(23400/F))/100
180 LET L4=(INT(7130/F))/100
190 LET L5=(INT(102.5*L3))/100
200 LET L6=(INT(102.5*L4))/100
210 LET L7=(INT(L2*50))/100
220 LET L8=(INT(L1*50))/100
230 FOR N = 1 TO 70
240 NEXT N
260 PRINT
265 PRINT CHR$(26)
270 PRINT"*****"
280 PRINT"***** ANTENNA FOR";F;"mHz *****"
290 PRINT"*****"
300 PRINT
310 PRINT
320 PRINT"*** HALF-WAVE DIPOLE ***"
330 PRINT
340 PRINT"LENGTH","EACH ARM"
350 PRINT L1;"FEET",L8;"FEET"
360 PRINT L2;"METERS",L7;"METERS"
370 PRINT
380 PRINT"*** QUARTER-WAVE VERTICAL ***"
400 PRINT
410 PRINT"VERTICAL","RADIAL"
420 PRINT L3;"FEET",L5;"FEET"
430 PRINT L4;"METERS",L6;"METERS"
440 PRINT
450 PRINT
460 PRINT
470 PRINT"ENTER Y/N TO CONTINUE"
480 INPUT Y$
490 IF Y$="Y" THEN GOTO 20
500 PRINT" I HOPE YOU ENJOY THE NEW ANTENNA!"
510 END

```

If it's CW, it's communications.

832-	ALL MAJOR BRANDS	832-
1111	SALES SERVICE	1111
8-530 Mon.-Fri. 8:30-1 Sat.		

Mike W8DZL Bob K6LAF Russ W8TUL
John W8ADY

CW

CW ELECTRONIC SALES CO.

800 Lincoln St., Denver, CO 80203

FCC REPRIMANDS HAM FOR DISHONEST UPGRADE TRY

The Federal Communications Commission (FCC) has formally reprimanded radio amateur operator raymond C. Bowler of Bath, Maine, for mailing an altered copy of his amateur license document for station WAINMC to the Radio Amateur Callbook in an attempt to become listed in the callbook as an extra class licensee, even though he was entitled only to General class privileges. The Commission said that Bowler's actions were a misuse of a Commission license and did not comport with the high standards of conduct expected in the amateur radio service.

The May QST (p 64) says that all power and hour restrictions on 160 meters have been removed as of March 27th, 1984, since LORAN has not been used since December 31st, 1983. The league's petition for the use of F-1 has not yet been approved.

TAKEN FROM THE LAKE ERIE AMATEUR RADIO ASSOC. REPEATER NEWSLETTER - MARCH 1984

The February 27th issue of the Wall Street Journal carried an article describing how the R.L. Drake Company went from \$7.3 million in sales (mostly ham gear) in 1981, to \$30 million in sales of satellite TV receivers in 1983. Peter Drake is quoted as estimating earnings of \$10 million in 1984. The satellite TV receiver business now accounts for 95% of Drake's business, according to the article. TNX W8MW

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⌘ **TAB BOOKS**

THIS SPACE COULDA BEEN YOURS

"FLASH"

SAT. MORNING BREAKFAST MOVED TO ALL THE KINGS
MEN FAMILY RESTAURANT 1605 N UNION BLVD.
BETWEEN PALMER PARK & CONSTITUTION

FROM YE OLDE EDITOR'S DESK

I received numerous calls since the last Zero Beat was put out. All the calls were to offer suggestions and articles. To those who called, thank you, very much. I will be gone until the 16th of July, but anyone with comments or suggestions is invited to call. I want to make this the kind of newsletter that when you each get it, you read it instead of chucking it on the counter. When I can hear you tell me, or anyone, that the first thing you do when you get this is read it to see what is going on this month, then I think I've gotten the job done. I think that between you and me, this can be the best newsletter in Colorado. Of course, I need your help to do that. So, for this month, thanks to you who called. I also was asked to put the equipment list with the bid space in this month. I thought that I'd be able to get it done. Ye Olde Editor screwed up and ran out of time mainly because I had guests in from Anchorage. Next month I'll get it in and it'll be right! My apologize to all. You have also probably noticed my absence from the world of two meters. My radio went a bit away and Icom now has it. I should be back on the air in mid July (notice the loud cheers?). Until next month when the important question will be: Is the swapfest really going to happen this year? I haven't had one comment on that, yet. Is anyone out there? does



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FROM PRESIDENT
THANKS
TO ALL WHO HELPED
WITH FIELD DAY
AL

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ZERO BEAT is published monthly in the interest of the the members of the Pikes Peak Radio Amateur Association Inc., Colorado Springs, Colorado. Permission is given to reprint articles or excerpts provided credit is given. Deadline for submission of articles is the 21st of the month. Classifieds accepted anytime.

The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at Giuseppe's Depot Restaurant at 10 S. Sierra Madre at 7:30 p.m. All amateurs and interested parties are invited to attend.

Editor: Frank Drake KL7IPV, 4964 Harvest Rd. Colorado Springs, CO 80917 597-2406

MILEY'S RADIO

Jess KOTAA 719 W. 7th St. Florence, Colorado 81226 784-3040
Hours 8 to 6 Tuesday through Friday — Closed most weekends through the summer
Evening Hours 7 to 9 (Call Ahead)

We'll be closed most weekends this Summer to pursue our favorite hobbies of amateur radio & travel. When there is a swapfest within 700 miles, we will probably be there. We have an answering machine on the phone and will call you back from somewhere as soon as possible if you leave a message & phone number.

We have in stock, or can get within 3 or 4 days — dropped shipped to your door, most any piece of electronic equipment you may want, and at the lowest prices anywhere. We sell most items at the same or lower price as the big mail order houses with no added shipping charges except for a few or very heavy items.

July special, while they last — Santec ST 142 (in our opinion the best HT on the market) - \$275 w/free ST8 desk charger (a \$30 value). Santec ST 142 w/o charger \$269.

Closed for Swapfest in New Mexico June 9, 10, 11 & 12.

See you July 6, 7, 8 & 9 at the Woodland Park Campout & Swapfest. We'll really have some bargains there!!

July 26-30 — Glenwood Springs or Flagstaff, AZ swapfest — or maybe both!

PPRAA

CLUB ITEMS FOR DISPOSAL BY BIDS

Teletype tape	partial box		KØTER	SELL
Transceiver	Midland 13-500		KØTER	SELL
Dip meter	Heathkit hd-1250	08905	KØTER	SELL
RTTY TU	Homebrew		KØTER	SELL
Antenna relay	(for KWS-1)		KØTER	SELL
Signal generator	Heathkit G-1		KØTER	SELL
Power supply	Heathkit SP-23		KØTER	SELL
Box of junk	coils, caps, tubes, etc		KØTER	SELL
Antenna (needs repair)	4 band vertical		NØAVY	SELL
Dummy load	Military AN/ARM-6		KØTER	SELL
Speaker	Motorola		KØTER	SELL
Oscilloscope	Tektronix 511AD		KØTER	SELL
Transmitter	Collins KWS-1		KØTER	SELL
Transmatch	Homebrew ARC-5		KØTI	SELL
Teletype paper	10 rolls misc.		KØTER	SELL
Monitor station	Military training		KØTI	SELL
Microphone	EV-638		KØTER	KEEP
Keyboard, CW			KØTER	SELL
Amplifier	Public address		KØTER	SELL
Microphone	Turner +3B (for KWS-1)		KØTER	SELL
Power Supply	Military PP-308/URR	1819	KØTER	SELL
Receiver	Military R-174/URR	854	KØTER	SELL
Transmitter	Military BC-458A	3725A	KØTER	SELL
Speaker	Collins		NØEPH	SELL
Receiver	Collins 75A-4		NØEPH	SELL
Teletype	Teletype 28-ASR		KØTER	SELL

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